PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:				PCI
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see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)	
			Date of mailing (day/month/year) see	form PCT/ISA/210 (second sheet)
	cant's or agent's file reference form PCT/ISA/220		FOR FURTHER A See paragraph 2 below	
International application No. International fili PCT/GB2004/001812 29.04.2004			ay/month/year)	Priority date (day/month/year) 01.05.2003
	national Patent Classification (IPC) or b K31/397, A61P43/00, A61P25/1			1P25/34, A61P3/04, A61P3/10
	Applicant VERNALIS RESEARCH LIMITED			
1.	This opinion contains indication	ons relating to the follo	owing items:	
	⊠ Box No. I Basis of the opi	inion		
	☑ Box No. II Priority			
	☑ Box No. III Non-establishm	nent of opinion with rega	rd to novelty, inventive	e step and industrial applicability
	☐ Box No. IV Lack of unity of	invention	-	
		ement under Rule 43 <i>bis.</i> ations and explanations		novelty, inventive step or industrial ement
	☐ Box No. VI Certain docume	ents cited		
	☐ Box No. VII Certain defects	in the international appl	lication	
	☐ Box No. VIII Certain observa	ations on the internation	al application	
2.	FURTHER ACTION			
	If a demand for international preli written opinion of the Internationa the applicant chooses an Authori International Bureau under Rule i will not be so considered.	al Preliminary Examining ty other than this one to	Authority ("IPEA"). Hole the IPEA and the I	lowever, this does not apply where chosen IPEA has notifed the
	If this opinion is, as provided abo submit to the IPEA a written reply months from the date of mailing of whichever expires later.	y together, where approp	oriate, with amendme	
	For further options, see Form PC	T/ISA/220.		
3.	For further details, see notes to F	Form PCT/ISA/220.		
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		<u> </u>		

Name and mailing address of the ISA:

Authorized Officer

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

iC05 Rec'd PCT/PTO 12 OCT 2005
International application No. PCT/GB2004/001812

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	Box N	lo. I	Basis of the opinion
1.			d to the language , this opinion has been established on the basis of the international application in ge in which it was field, unless otherwise indicated under this item.
	la	angua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With r	regard sary 1	d to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type	e of m	naterial:
		a se	equence listing
		tabl	le(s) related to the sequence listing
	b. forr	mat of	f material:
		in w	vritten format
		in c	computer readable form
	c. time	e of fil	ling/furnishing:
		con	ntained in the international application as filed.
		filed	d together with the international application in computer readable form.
		furr	nished subsequently to this Authority for the purposes of search.
3.	h C	as be opies	ition, in the case that more than one version or copy of a sequence listing and/or table relating theretoen filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.

4. Additional comments:

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_	Box	No. II	Priority		
1.	⊠	The fol	lowing document has not been furnished:		
		\boxtimes	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).		
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).		
			quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.		
2.		has be	pinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.		
3.	Add	litional c	bservations, if necessary:		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:			
	the entire international application,		
\boxtimes	claims Nos. 9-13 with respect to industrial applicability		
bed	cause:		
⊠	the said international application, or the said claims Nos. 9-13 with respect to industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify):		
	see separate sheet		
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):		
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.		
	no international search report has been established for the whole application or for said claims Nos.		
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:		
	the written form		has not been furnished
			does not comply with the standard
	the computer readable form		has not been furnished
			does not comply with the standard
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.		
	☐ See separate sheet for further details		

Re Item III.

Claims 9 and 10-13 (as far as related to the method) relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V.

- 1 The following documents are referred to in this communication:
 - D1: WO 99/37612 A (BODKIN CORINNA DAGMAR; CEREBRUS LTD (GB); ADAMS DAVID REGINALD (GB);) 29 July 1999 (1999-07-29)
 - D2: FR-A-2 805 817 (AVENTIS PHARMA SA) 7 September 2001 (2001-09-07)
 - D3: FR-A-2 805 810 (AVENTIS PHARMA SA) 7 September 2001 (2001-09-07)
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-9 is not new in the sense of Article 33(2) PCT. Document D1 discloses the use of the azetidinecarboxamide derivatives of formula (I) for the manufacture of a medicament for the treatment of anxiety, epilepsy, insomnia, senile dementia and alcohol withdrawal syndrome. All those diseases are disorders mediated by CB1 receptors (see D2 and D3).
- The combination of the features of dependent claims 10-13 are neither known from, nor rendered obvious by, the available prior art. Consequently the subject-matter of claims 10-13 meets the requirements of Articles 33(2) and 33(3) PCT.
- 3.1. None of the cited documents discloses the use of the azetidinecarboxamide derivatives of formula (I) for the manufacture of a medicament for the treatment of psychosis, schizophrenia, cognitive disorders, attention deficit disorder, gastrointestinal disorders, smoking cessation, obesity and non-insulin dependant diabetes mellitus.

- 3.2 In the light of the prior art, the problem to be solved can be regarded as how to provide compounds with antagonist and/or inverse agonist properties at the cannabinoid-1 (CB1) receptor in order to treat the diseases mentioned in claims 10-13.
 - No indications were found that would have led the skilled person to choose the azetidinecarboxamides of formula (I) to solve the problem posed, so an inventive step in the sense of Article 33(3) PCT is acknowledged.
- There are no doubts about industrial applicability for the subject-matter of claims 1-8 (Article 33(4) PCT).
- 4.1. For the assessment of the present claims 9-13 (as far as related to the method) on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.